

### **In the Abstract:**

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### **ABSTRACT**

The invention relates to a system for reducing the coherence of a wave front-emitting laser radiation, especially for a projection lens for use in semiconductor lithography, wherein a first partial beam of a laser beam incident on a surface of a resonator body is partially reflected. A second partial beam penetrates the resonator body and emerges from the resonator body at least approximately in the area of entry after a plurality of total internal reflections. The two partial beams are then passed on jointly to an illumination plane. The resonator body is adapted, in addition to splitting the laser beam into partial beams, to modulate the wave fronts of at least one partial beam during a laser pulse. The partial beams reflected on the resonator body and penetrating the resonator body are superimposed downstream of the resonator body. The resonator body is provided with a phase plate having different local phase distribution.